

Bock-removing operations on the Amur River. Rech. transp. 17 Rock-removing operations on the Amur River. Rech. transp. 17 (MIRA 11:8) no. 7:36-38 J1 '58. 1. Glavnyy inzhener Amurekogo basseynovogo upravleniya puti. (Amur River.-Blesting)

Objectives and a model program for surveying the Amur River bed. Amur. sbor. no. 1:21-28 '59. (NIFA 14:2)

1. Glavnyy inchoner Amurskogo Lasseynovogo upravleniya puti. (Amur River-Hydrographic surveying)

IMBEDEV, P.F., inzh.; 7AYDWAN, Ya.D., inzh.

Leveling irrigated lands subjected to sagging. Gidn. 1 mel. 17

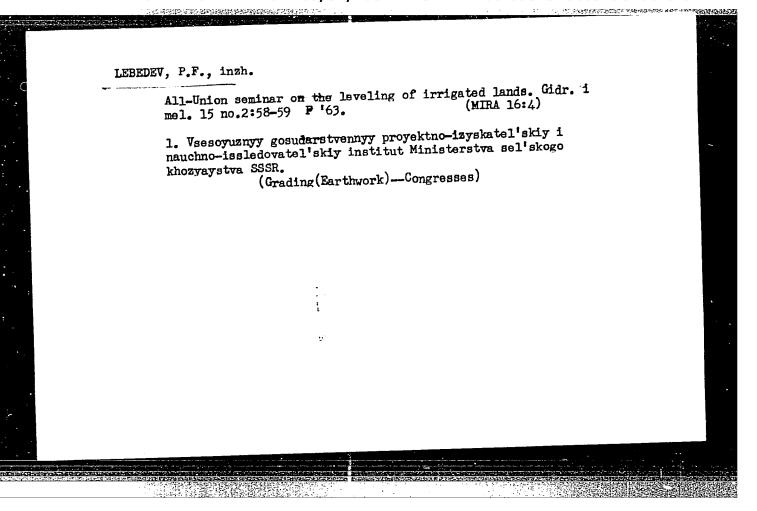
no.5:18-20 My 165. (MIRA 18:7)

1. Vsesoyuznyy gosudarstvennyy proyektno-izyskatelickiy i nauchno-issledovateliskiy institut vodokhozywysivennoso nirole stroitelistva Gosudarstvennogo proizvedstvennogo kamiteta po oroshayemomu zemledeliyu i vodnosu khozyaystva SSSE.

LEBEDEV, P.F.; MEL'NIK, N.S.

Effect of nitrogen and light intensity or tillering and productivity of the timothy grass (Phleum pratense L.). Dokl. AN SSSR 137 no.1: 224-227 Mr-Ap '61. (MIRA 14:2)

1. Ural'skiy gosudarstvennyy universitet im. A.M. Gor'kogo. Predstavleno akademikom A.L. Kursanovym. (Timothy grass) (Plants, Effect of light on) (Plants, Effect of nitrogen on)



LEBEDEV, P. I.

"Method of Heat Calculation of Spraying Tanks (Collected Works) Metod teplovogo rascheta bryzgal'nykh basseynov. sbornik trudov.

(nauch-issled. in-t po osnovaniyam i fundamentam, leningrad. otd-nie) No. 1, 1949, s. 58-72.

AU Sci. Res. Inst. for Study of Bases and Foundations of Engrg. Structures.

Leto is' Zhurnal'nykh Statey, Vol 7, 1949

TEZERSKIY, F.; LEBEDEV, P.I., redaktor; LUKIN, F.I., tekhnicheskiy redaktor

[Bridge and highway engineering; manual for study groups of the All-Union Voluntary Association for Cooperation with the Army, Air Force, and Navy] Dorozhno-mostovoe delo; posobie dila uchebnykh grupp Dosaaf. Moskva, Izd-vo Dosaaf, 1953. 182 p.

[Microfilm] (MIRA 7:10)

(Hilitary roads) (Hilitary bridges)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020013-5

SOV/124-57-8-8961

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 8, p 56 (USSR)

Lebedev, P.I. AUTHOR:

Laboratory Determination of the Wave Loads on a Lone Pier TITLE:

(Laboratornoye opredeleniye volnovykh nagruzok na otdel' no

stoyashchuyu oporu)

PERIODICAL: Sb. tr. Vses. n.-i. in-ta gidrotekhn. i san-tekhn. rabot, 1956,

Nr 7, pp 115-129

Description of attempts to determine the wave action on two versions (pile-type and buttress-type) of a lone pier. The magni-ABSTRACT:

tude of the wave action was measured with the aid of a strain-gage sensor and was recorded oscillographically. The test results, extrapolated according to the law of similarity, come fairly close to the full-scale measurements of Glukhovskiy and Vilenskiy (Tr. gos. okeanograf. in-ta, 1954, Nr 26); the empirical formula of A. V. Afonskiy (Avtoref. diss. kand. tekhn. n., MISI, 1954) affords too crude an approximation and in a number of cases goes counter

to test results. Sketches, photographs, and tabulations of the test S. V. Zhak

results are adduced. Card 1/1

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	L 15171-63 Pz=4 JD/AT/LJP(C) S/0058/63/000/005/E073/E073
	ACCESSION NR: AR3003340
	SOURCE: RZh. Fizika, Abs. 5E459
	AUTHOR: Kot, M. V.; Kretsu, I. V.; Lebedev, P. I.
	TITLE: Electric properties of crystals of zinculantimonide doped with gallium
	CITED SOURCE: Tr. po fiz. poluprovodnikov. Kishinevsk. un-u, vy p.
and and	TOPIC TAGS: zinc antimonide, single crystal, conductivity, Hall constant, thermal emf, gallium doping, mobility ratio
	TRANSLATION: The temperature dependence of the electric conductivity (8), the hard constant (R), and the thermal emf (x) of single crystals of ZnSb doped with Ga were constant (R), and the thermal emf (x) of single crystals were grown by the zone-melting method and had a rhom-
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	change in the low-temperature of the forbidden zone $\Delta E_0 = 0.64$ eV and the ratio of the modern calculate the width of the forbidden zone $\Delta E_0 = 0.64$ eV and the ratio of the holes is $m_0 = 0.7m_0$.
	change in the low-temperature region. The results of the measurements will change in the low-temperature region. The results of the measurements will change in the low-temperature region. The results of the measurements will be change in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the measurements will be changed in the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region is a supplied of the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region. The results of the low-temperature region is a supplied of the low-temperature region is a supplied of the low-temperature region is a supplied of the low-temperature region region of the low-temperature region reg
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L 17158-63 EPA(b)/EWT(1)/FCC(w)/FS(v)-2/BDS/ES(v)AFFTC/AFMDC/ ESD-3/APGC/SSD Pd-4/Pe-4/Pg-4/Po-4/Pq-4 GW ACCESSION NR: AT3006848 S/2560/63/000/016/0211/0225 AUTHOR: Aleksakhin, I. V.; Krasovskiy, A. A.; Lebedev Yakovleva, A. I. TITLE: Determination of the parameters of the initial orbits artificial earth satellites 1 1 1 1 1 1 1 SOURCE: AN SSSR. Iskusst. sputniki Zemli, no. 16, 1963, 211-225 TOPIC TAGS: satellite orbit, orbital element, satellite launching, coordinate system, initial orbit, orbital parameter, rocketry ABSTRACT: Based on the theory of undisturbed planetary motion, working formulas have been obtained for computing: 1) the parameters of the initial orbit based on given parameters of the motion of the center of satellite mass at the moment of going into orbit,

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and 2) partial derivatives from the parameters of the initial orbit on the basis of the parameters of motion of the center of satellite mass in the launch and initial launch coordinate systems at the moment of going into orbit. Four Cartesian rectangular coordinate systems are employed, i.e., launch, ground, sidereal, and Card 1/2

L 17158-63

ACCESSION NR: AT3006848

initial launch. Initial satellite orbit is here understood to be the orbit of motion in the central gravitational field described by the Newtonian potential in the absence of perturbing forces. The parameters of the initial orbit are functions of the following parameters of motion of the center of satellite mass at the moment of assuming orbit: 1) parameters determining the moment the satellite assumes orbit, 2) parameters determining the position of the earth in space, 3) parameters determining the position of the launch coordinate system on the surface of the earth, and 4) parameters determining the coordinates and velocity components of the center of satellite mass in the launch coordinate system at the moment of assuming orbit. Orig. art. has: 90 formulas.

ASSOCIATION: none

SUBMITTED: 20Jul62

DATE ACQ: 08Aug63

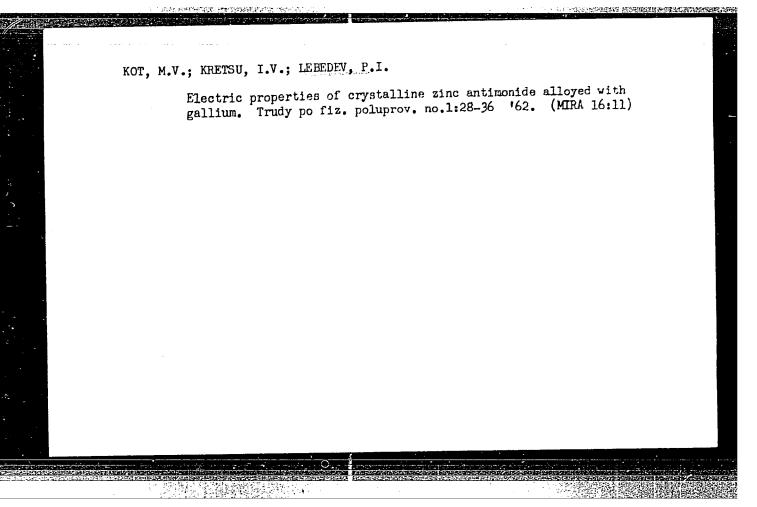
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Card 2/2



LEBEDEY, 121.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1623

AUTHOR

BALAC, M. JA., LEBEDEV, P.I., OBUCHOV, JU. V.

Measuring the Life of K-Mesons.

TITLE PERIODICAL

Žurn.eksp.i teor.fis, 31, fasc. 3, 531-533 (1956)

Issued: 12 / 1956

The average life of the charged K-mesons of cosmic radiation was measured at sea level with the help of liquid-scintillation-counters and of a high frequency oscillograph. The arrangement and the mode of operation of the counters is discussed in short. The time needed for development was

1,3.10⁻⁷ sec and the minimum time of growth in the amplifier was 2,5.10⁻⁹ sec. The error, which was found by experimenting and which is connected with the

fluctuations in time of the photomultiplier FEU-19 remained below 10^{-9} sec. A further source of errors is mentioned.

For the purpose of taking "post impulse" of the multiplier and of the shifts with respect to time between impulses (which occur as a result of the difference in the time needed for the passage of two coupled particles) into account, the distributions of the time intervals between impulses in the case of different arrangements of the counters are measured. In connection with these control tests the number of acts of decay in the counter itself was negligibly small. The results of these control tests were taken into account when dealing with the results.

CIA-RDP86-00513R000929020013-5" APPROVED FOR RELEASE: 08/31/2001

Zurn.eksp.i teor.fis,31,fasc.3,531-533 (1956) CARD 2 / 2 PA - 1623
The lowest energy of the decaying myon which was still able to obtain a response from the measuring system, amounted to 25 MeV. Thus the acts of decay $\pi \to \mu + \nu$ were eliminated. An act of decay $\mu \to e + 2\nu$ was able to cause the device to respond, but because the resolving power of the coincidence scheme amounts to 4.10^{-8} sec, the probability of such a response was sufficiently small.

All in all, 64 acts of decay were noticed during 1600 hours of operation in the interval of from 10^{-8} to 4.10^{-8} sec. The integral distribution of the times of decay is shown in a graph. The average life of K-mesons obtained is $(9.5 \pm 2.0).10^{-9}$ sec if a decay rule with an exponent is assumed. This result is in agreement with those of several American works. Two further graphs illustrate the scheme of the measuring system and the curve of the resolving of the threefold coincidences.

INSTITUTION:

LEbreley P1

120-2-18/37

AUTHOR: Balats, M. Ya., Lebedev, P. I., and Obukhov, Yu. V.

TITIE: A High Speed Oscilloscope. (Vysokoskorostnoy Ostsillograf).

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.2,

pp. 63 - 67 (USSR).

ABSTRACT: A description and analysis of an oscilloscope for the photographic investigation of pulses with 3 x 10 secs. rise time is given. The scope has been built in the Soviet Union using Russian components. The signal is applied to a two stage pre-amplifier and via a 20 meter HF cable; a two stage pre-amplifier and via a 20 meter in capte, a phase inverter and push-pull output is applied to the vertical deflection plates of a 5RP1-A CRT (since replaced by a tube of Russian manufacture). A part of the 150-180V signal is applied via an inverting pulse transformer to a high speed time base using type 2050 thyratron. Part of high speed time base using type 2050 thyratron. the scanning voltage is used for triggering the relay of the camera shutter. The final vertical deflection amplifier consists of 12 tubes type 6%/17 in distributed amplifier connection. Matching from the pre-amplifier to the output amplifier is achieved by means of a phase inverter designed as a three tube distributed parameters amplifier with 6 XIII tubes. This amplifier has a gain of about 1 and band-width of about 200Mc/s. The pre-amplifier consists of two Card 1/3 identical travelling wave amplifiers of 8 tubes 6) HITT in

A High Speed Oscilloscope.

120-2-18/37

each stage. The delayed triggering is obtained using a co-axial cable length of 200 ohms impedence between the phase inverter and the pre-amplifier. Matching between all stages is achieved by means of a 200 ohms impedence for the grid line of the vertical deflection amplifier and for the anode line of the phase inverter and of the pre-amplifier. Artificial anode and grid lines are m-derived filters with m = 1.27. The load lines have m-derived sections with m = 0.6, which permits to keep the wave impedence constant up to f ≈ 0.8f cr. A detailed description of all distributed line sections is given (Ref. 5): the total gain of the vertical deflection amplifier is 500, its response flat up to 170Mc/s, which corresponds to a rise time of about 2.5 x 10 secs. A detailed description of the fast time thyratron base generator is also given, two speeds being available for the final anode voltage of 23kV: 130 and 40cm per μsec. Pφ-3
Photographs are taken using 1: 1.5 objective and type Pφ-3
film with a sensitivity of 800 units CCT. One

block diagram, three circuit diagrams, the frequency response graph, a detailed drawing of the loading section, Card 2/3 photograph of the 8 tube distributed amplifier and four

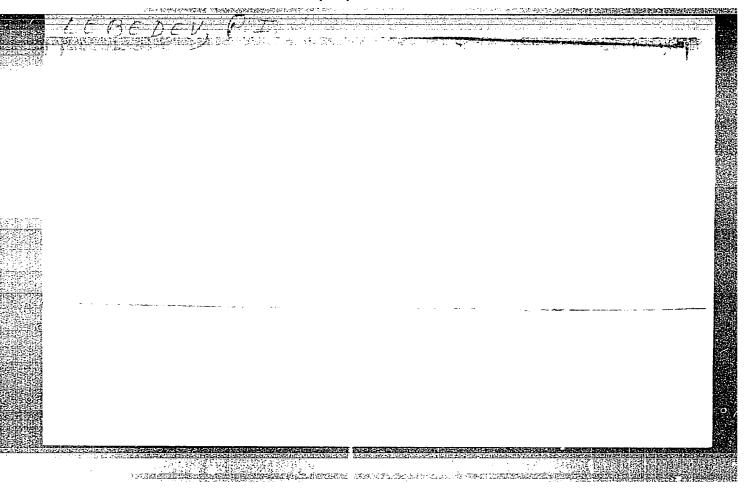
A High Speed Oscilloscope.

120-2-18/37

photographs of pulse pictures are given. S. Ya. Mikitin and A. G. Meshkovskiy have co-operated in the construction of the instrument. There are 6 references, 2 of which are Slavic.

SUBMITTED: November, 18, 1955. AVAILABLE: Library of Congress.

Card 3/3



Die

21(7)

sov/56-37-3-1/62

AUTHORS:

Balats, M. Ya., Lebedev, P. I., Obukhov, Yu. V.

TITLE:

Production of K+-Mesons by Protons of Cosmic Rays

Altitude of 3250 m Above Sea Level

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959.

Vol 37, Nr 3(9), pp 589 - 595 (USSR)

ABSTRACT:

It was the aim of the present paper to determine the momentum spectrum of K⁺-mesons produced by cosmic ray rotons as well as to evaluate the production cross sections. In the first part of the paper the experimental arrangement (Fig !) is described in great detail. Within a system of Geiger-Mueller counters there were 6 lead slabs of equal thickness (50 g/cm²) and different size; below this hodoscope system there were 4 liquid-scintillation counters, two of which (C_3 and C_4) were

symmetrically located on the two sides of an aluminum absorber.

These four counters were connected in triple coincidence

 $(c_1+c_2+c_3(c_4))$. The scintillation counters are discussed separa-

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tely and are schematically represented by figure 2. Figure 3 shows a block scheme of the entire apparatus. Also the radio

Production of K⁺-Mesons by Protons of Cosmic Rays SOV/56-37-3-1/62 at an Altitude of 3250 m Above Sea Level

technical system of K-meson recording (life time 1.2.10 sec) is briefly discussed. In the following part of this paper the Kt decay scheme is briefly discussed. Four experiments were carried out on the device described: Experiment a. Duration 1200 hours; it served the purpose of investigating the K* spectrum in the range interval (50-350) g/cm2 as well as determ ining the production cross section of these mesons. Experiment b: 200 hours; this experiment is carried out for the purpose of investigating the degree of efficiency of K+-recording in the individual layers; the three lowest lead slabs had been removed for this experiment. Experiment c: 5oc hours; this ex periment was carried out in the same manner as experiment a, but this time the absorber had been removed. Experiment de-196 hours. This experiment was carried out for the purpose of determining the background connected with the air showers. The directives for the evaluation of results are given, and the thus obtained data are shown in table 1. Finally, the results were discussed. In figure 6 the momentum spectrum of the K'mesons within the range of 0.2 - 0.9 Bev/c is shown; figure? shows the curve of the duration of decay. The exact value of

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Production of K⁺-Mesons by Protons of Cosmic Rays at an Altitude of 3250 m Above Sea Level

S07/56-57-3-1/62

the life time of the K⁺-mesons found in these experiments amounts to $(10.0 \pm 1.2).10^{-9} \text{sec}$. The momentum spectrum at an altitude of 3200 m may be approximated by the function $N(p)dp = A^{-2.7}dp$, where $A = 0.9.10^{-3}$ particles/cm²sec. steradian and the angular distribution is expressed $V(0)d0 \sim \cos^{0}0 d0$. The authors finally thank A. I. Alikhanov, G. P. Yeliseyev, V. A. Lyubimov, and A. G. Meshkovskiy for discussion, A. I. Alikhanyan for making it possible to work at Mount Alagez Cosmic Station, and further K. A. Zaytsev and A. N. Rozanov for assisting in the experiments. There are 7 figures, 2 tables, and 9 references, 3 of which are Soviet.

SUBMITTED:

December 3, 1958

Card 3/3

s/056/60/038/006/020/049/XX B006/B070

24.6300 AUTHORS:

Landsberg L G .. L. N. Kondrat'yev Ya. Pontekorvo, B. Obukhov, Yu. V., Lebedev,

TITLE:

Non-radiative Transitions in Heavy presic Atoms 19

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki,

1960, Vol. 38, No. 6, pp. 1715 - 1719

This paper is concerned with studies of the spectra of X-ray photons emitted by mesic atoms of uranium and lead. Since so far only TEXT: two 2P-+ 1S transition mechanisms in mesic atoms have been studied (emission of meso-X-ray photons, and Auger effect), this work is a supplement as well as a contribution to the data on the properties of heavy nuclei. The experimental arrangement is described in the introduction and schematically shown in Fig. 1. A π -beam (270 MeV/c) from the synchrocyclotron of OIYaI (Joint Institute of Nuclear Research) was used. The targets had a thickness of 10.7 g/cm2 for uranium and of 10.3 g/cm2 for lead. A scintillation counter with a photomultiplier

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Non-radiative Transitions in Heavy μ -mesic Atoms

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of the type \$\partial \color 33 (FEU-33) served as the gamma quantum detector. The counter pulses were conveyed to a 64-channel pulse neight analyzer. The background of the accidental coincidences amounted to about 5% of the counting rate. A Na24 source (E_= 1.38 and 2.76 MeV) was used for calibration and checking the linearity. The results of measurement for the range 3 - 8 MeV are shown in Fig. 3. Curve I gives the upper limit of the background, II the lower limit for the background of Pb and III the lower limit for the background of U (n - number of counts per analyzer channel). The spectra are normalized for one and the same A-mesons stopped in the target. The Pb curve has a clear peak at 5 3 MeV. On account of the smallness of the NaI (TI) crystal, this peak can be due to three photon energies: 1) E_= 2) E_= -0.5; MeV; transition photons in mesic lead. In the region of the 2P-\(\phi\) S transition photons in mesic lead. In the region of the peak (5 - 5.5 MeV), less counts were obtained from uranium than from lead. The mean energy of the peak corresponding to the transition 2P-\(\phi\) S is about 200 keV larger from uranium than from lead. The photon intensity difference at 6 MeV in mesic uranium and mesic lead indicates that a non-radiative

Card 2/5

Non-radiative Transitions in Heavy μ -mesic Atoms

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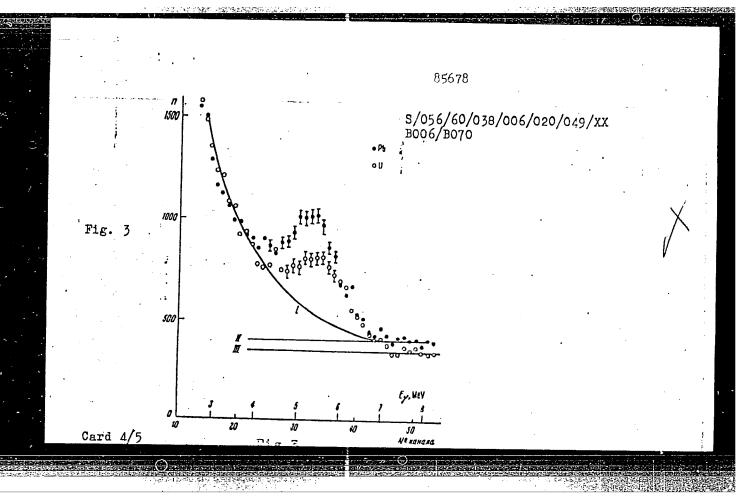
transition of μ mesons to the 1S level of mesic uranium takes place here. Such a non-radiative transition in which the transition energy is directly transferred to the nucleus, had not yet been observed. A rough estimate of the ratio of the non-radiative transition probability in lead to the probability of emission of a photon gives the value $(W_b/W_8)_{U238}$. Preliminary experiments have further shown

that non-radiative transitions take place also in Th²³².

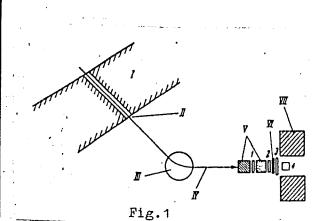
A. I. Alikhanov is thanked for his interest, and D. F. Zaretskiy for making some results available before publication. G. Ye. Belovitskiy is mentioned. The preliminary results of these investigations were communicated by A. I. Alikhanov to the Nineth All-Union Conference on Physics of High-energy Particles held in Kiyev in 1959. There are 3 figures and 6 references: 2 Soviet, 3 US, and 1 Dutch.

SUBMITTED: January 19, 1960

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Legend to Fig. 1: I - concrete shield, II - collimator, III - deflecting magnet, IV - π -beam, V - filter (75 g/cm² Cu + 32g/cm²B4C), VI - target, VII - counter shield (20 cm lead), 1,2 -plastic scintillators, (110 mm diameter, 10 mm thick), 3 - the same (125 mm diameter, 12 mm thick), 4 - NaI(T1) crystal (30 mm diameter, 10 mm thick).

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5/056/60/039/004/047/048 B006/B056

24,6900

Balats, M. Ya., Kondrat'yev, L. N., Landsberg, L. G.,

Lebedev, P. I., Obukhov, B. V., Pontekorvo, B.

TITLE

The Intensity of Radiationless Transitions in M-Mesic Atoms

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, PERIODICAL: Vol. 39, No. 4(10), pp. 1168 - 1170

In an earlier paper (Ref. 1) the authors found that the intensity of mesic X-rays 2P - 1S in $\overline{\rm U}^{238}$ normalized to one stopped muon is con-TEXT: siderably less than in Pb. This fact indicates the existence of radiationless transitions in heavy mesic atoms, in which the energy of the 2P - 1S transition is not liberated in the form of an X-ray photon. It is assumed that the probability of radiationless transition (\mathbf{W}_{rl}) in mesic lead is negligibly small in comparison to the probability $(\widetilde{\mathtt{W}}_{h \nu})$ of a transition with emission of one photon $((W_{hy})_{Pb} = 1)$: $1 > (W_{r1})_{U^238}/(W_{h})_{U^238} > 0.1$. Now, the authors investigated the 2P - 1S transition intensities in the

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The Intensity of Radiationless Transitions in S/056/60/039/004/047/048 ### B006/B056

mesic atoms of Pb, Bi, Th, U^{235} , and U^{238} , and give a report on this investigation. With the help of a scintillation spectrometer, the X-ray measured. Special attention was paid to determining the background level. Figs. 1 and 2 show examples of the spectra recorded. Fig. 1 shows the spectra of mesic X-ray photons from targets of Pb(4.46 g/cm²), Bi(4.46 g/cm²), and $U^{238}(4.60 \text{ g/cm}^2)$, and $U^{238}(4.60 \text{ g/cm}^2)$,

Bi(4.46 g/cm²), and $U^{238}(4.60 \text{ g/cm}^2)$; as abscissa, the pulse height in volts, and as ordinate, the number of pulses in an interval of 5v is

taken. Fig. 2 shows the same for Pb(5.56 g/cm²) and U²³⁵(5.59 g/cm²). The intensities of mesic X-radiation (2P - 1S) normalized to one stopped μ -meson (in relative units) are given in a table:

Intensities

		Fraction of radiation-
Pb	1	less 2P - 1S transitions
Bi	1 ± 0.06	0 + 0 06
Th U ² 35 U ² 38	0.85 ± 0.07	0 <u>+</u> 0.06 0.15 <u>+</u> 0.07
11 ² 38	0.71 + 0.05	0.29 <u>+</u> 0.05
Card 2/3	0.77 ± 0.04	0.23 ± 0.04

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S/120/62/000/004/017/047 E192/E382

24.6730

Vodop'yanov, F.A., Zlatov, Yu.M., Uvarov, V.A.,

Barabash, L.Z. and Lebedev, P.I.

TITLE:

AUTHORS:

Investigation of the precision system of programmed frequency-control of the accelerating field in the

proton synchrotron. 1

Pribory i tekhnika eksperimenta, no. 4, 1962, PERIODICAL:

The programmed frequency control in the proton synchrotron is based on two precision elements: a frequency TEXT: programmer and a driver oscillator (described on pp. 80 and 89 of this issue). During development of this equipment the following problems were investigated: 1) accuracy and stability of the functional relationship of the frequency and the magnetic field in the gaps of the electromagnet; 2) parasitic micromodulation of the accelerating field and 3) influence of the characteristics of the accelerating field on the process of particle acceleration. The stability was measured at 9 points of the operating-frequency range (between 696 kc/s and 8.295 Mc/s) Card 1/3 1 REFERENCE \$/120/62/000/004/025/047

Investigation of

S/120/62/000/004/017/047 E192/E382

and it was found that the short-term instability at the lowest frequency was \pm 3 x 10 and \pm 0.06 x 10 at the upper limit frequency; cgrresponding figures for long-term instability are+h.5 x 10 and +0.06 x 10 the permissble instability for the two limits is + 10 x 10 and 0.8 + 10 the two limits is + 10 x 10 and 0.8 + 10 the limits is + 10 x 10 and 0.8 + 10 the limits is + 15 circles are the limits is the limits is + 10 x 10 and 0.8 the limits is + 15 circles are the limits are the limits is + 15 circles are the limits are the limits is + 15 circles are the limits are the limits are the limits is + 10 x 10 and + 10 circles are the limits are the limi parasitic micro-modulation due to noise was measured at 15 fixed frequencies and it was found that this never exceeded the prescribed tolerance. The modulation due to combination frequencies was largely reduced by using a balanced-mixer system. Losses in the proton beam as a function of the accuracy of the frequency-change law were investigated during the starting of the accelerator. For this purpose the frequency-programmer of the system received an additional voltage pulse having the gaussian shape and a duration of 50 - 160 µs. Introduction of such perturbations at magnetic fields of 650, 4 000 and 6 000 0e preduced an additional radial deflection of the beam of ± 2.5, \pm 3.0 and \pm 1 mm, at which the strength of the beam was halved; the frequency changes corresponding to these deflections were $\pm 1.3 \times 10^{-3}, \pm 10^{-4}$ and $\pm 1.5 \times 10^{-5}$. Card 2/3

Investigation of

S/120/62/000/004/017/047
E192/E382

ASSOCIATION: Radiotekhnicheskiy institut GKAE
(Radio-engineering Institute, GKAE)

SUBMITTED: April 5, 1962

Card 3/3

LEBEDEV, 1:0766 S/120/62/000/004/047/047 E039/E420 AUTHORS: Vladimirskiy, V.V., Gol'din, L.L., Pligin, Yu.S., Viadimirskiy, v.v., Gol'din, L.L., Filgin, Iu.S., Veselov, M.A., Talyzin, A.N., Tarasov, Ye.K., Koshkarov, D.G., Lapitokiy, Yu.Ya., Barabash, L.Z. Klecpov, I.F., Lehadav, P.I., Kuz'min, A.A., Batalin, V.A., Onosovakiy, K.K., Uvarov, V.A., Vodop'yanov, F.A. TITLE: Adjustment of the acceleration regime of the 7 Gev PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 248-255 In order to establish the optimum parameters for . programming the control frequency the intensity, position, and frequency and amplitude of transverse escillation of the beam is measured in three stages: (1) during the first revolution, (2) with a circulating beam and (3) with acceleration. for measurements on the first revolution long afterglow scintillation screens are used which are either observed visually or by means of a tolevision camera. The screens are placed in the sections between magnet blocks; 15 in the initial part and 10 in the final part of the chamber. It is shown that the orbit does not

Adjustment of the acceleration ...

S/120/62/000/004/047/047 E039/E420

deviate by more than 1.5 cm from the axis during the first revolution. Circulating beams without acceleration are obtained which continue for 20 to 30 revs. The circulating current is determined by means of a flight tube and the transverse oscillation frequency with an electrostatic probe with double vertical and horizontal plates. Scintillation screens in the form of a grid with 85% transmission are used to show the beam position and diameter for 5 to 10 revs. The beam diameter is shown to be about 4 cm under normal conditions. Investigations are carried out on the optimum form of the frequency - time region is + 3 Kc/s for an initial frequency of 750 Kc/s which permitted the attainment of 6.2 Gev protons and after adjustment 7.2 Gev protons were obtained on October 25, 1961. The usual intensity on a normal cycle lies in the range 3 to 5 x 109.

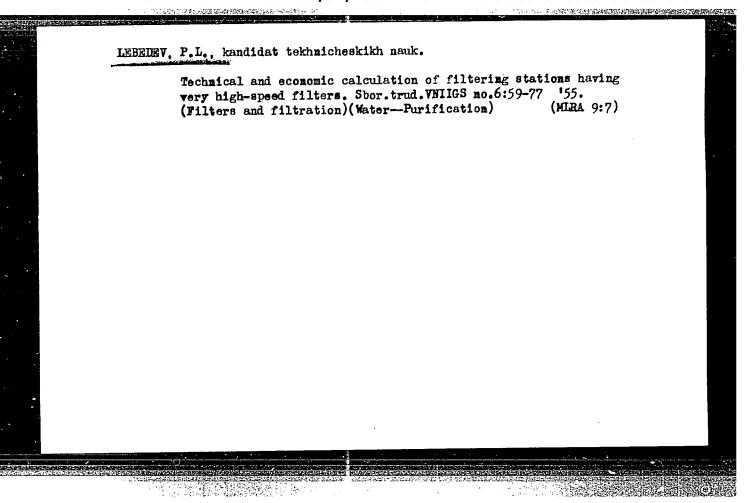
ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
GKAE (Institute of Theoretical and Experimental
Card 2/2 Physics GKAE)

VLADIMIRSKIY, V.V.; GOL'DIN, L.L.; PLIGIN, Yu.S.; VESELOV, M.A.;

TALYZIN, A.N.; TARASOV, Ye.K.; KOSHKAREV, D.G.; LAPITCKIY,
Yu.Ya.; BARABASH, L.Z.; KLEOPOV, I.F.; LEBEDEV, P.I.;
KUZ'MIN, A.A.; BATALIN, V.A.; ONOSOVSKIY, K.K.; UVAROV, V.A.;
VODOP'YANOV, F.A.

Adjustment of acceleration in the 7 bev. proton synchrotron. Prib. i tekh. eksp. 7 no. 4:248-255 Jl-Ag '62. (MIRA 16:4)

l. Institut teoreticheskoy i eksperimental'noy fiziki Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energli SSSR.



LEBEDEV, P.L.

Protection of city gas pipelines in the city of Krasnodar from electrochemical corrosion. Zashch. trub. ot kor. no.5: 3-12 '62. (MIRA 17:7)

1. Trest "Orggaz".

设计技术系统设施

Country: USSR
Category: Cultivated Flants. Fruit. Berries.

Abs Jour: RZhBiol., No 11, 1958, No 49134

Luthor: Lebedov, P.M.

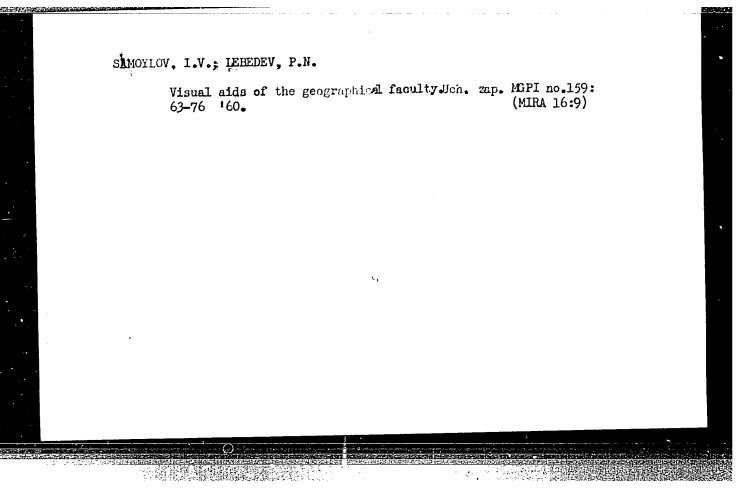
Inst:
Title: Wild Strawberry-Strawberry Hybrid (Podmoskovnaya variety)

Orig Pab: Sad i ogorod, 1957, No 11, 56

Abstract: No abstract.

Card: 1/1

M-172



KAZAKEVICH, F.P., kand. tekhn. nauk; STEPANENKO, V.F., inzh.; LEBEDEV, P.M., inzh.; CHERNYAVSKIY, A.F., inzh.

Heat transfer in a combustion chamber during the burning of natural gas. Izv, vys. ucheb. zav.; energ. 7 no.2:51-56 F '64. (MIRA 17:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. Predstavlena kafedroy teplotekhniki.

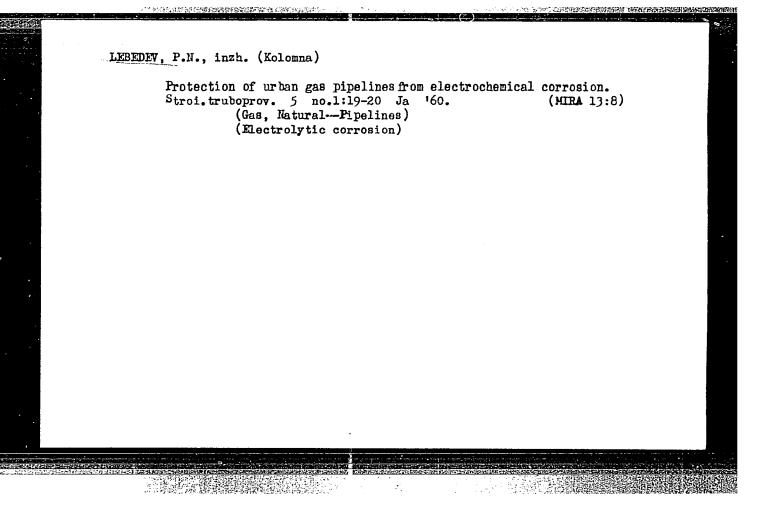
KAZAKEVICH, F. P., kand. tekhn. nauk; STEPANENKO, V. F., inzh.; LEBEDEV, P. M., inzh.; CHERNYAVSKIY, A. F., inzh.

Heat transfer in a ribbed feed-water economizer in a boiler system operating on natural gas. Teploenergetika 10 no.3: 54-56 Mr '63. (MIRA 16:4)

1. Dnepropetrovskiy inzhenerno-stroitel'nyy institut.

(Boilers)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020013-5"



Cranitized rocks in the Kochkarka region (Southern Urail). Biul.
nauch.-tekh.inform VINS no.1:10-13 163. (MIRA 18:2)

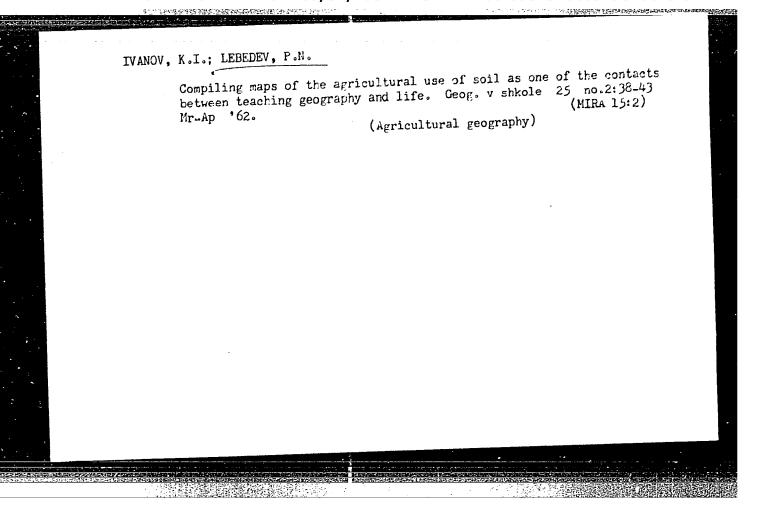
1. Ural'skoye geologicheskoye upravleniye.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020013-5"

IGNAT'YEV, G.M.; LEBEDEV, P.N.

All-Union Conference on the Recording and Qualitative Evaluation of Agricultural Lands. Izv. vses. geog. obwwa 92 no.6:545-547 (MIRA 14:1)

N-D'60. (Land-Congresses)



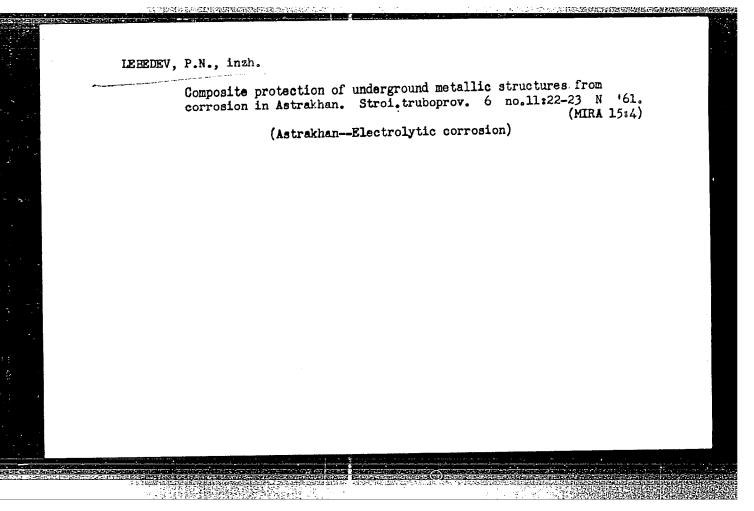
IVANOV, K.I., red.; BELOTSERKOVSKIY, M.Yu., red.; BOLYSHEV, N.N., red.; GEDYMIN, A.V., red.; GLAZOVSKAYA, M.A., red.; GOLOVENKO, S.V., red.; ZVORYKIN, K.V., red.; IGNAT'YEV, G.M., red.; KUZNETSOV, G.A., red.; LEBEDEV, N.P., red.; LEBEDEV, P.N., red.; RAKITNIKOV, A.N., red.; SHEYNIN, L.B., red.; GREBTSOV, P.P., red.; YERMAKOV, M.S., tekhn. red.

[Accounting for and the evaluation of agricultural land]

[Accounting for and the evaluation of agricultural land]
Uchet i otsenka sel'skokhoziaistvennykh zemel'. Pod red. K.I.
Ivanova. Moskva, Izd-vo Mosk. univ., 1963. 385 p.

(MIRA 16:7)

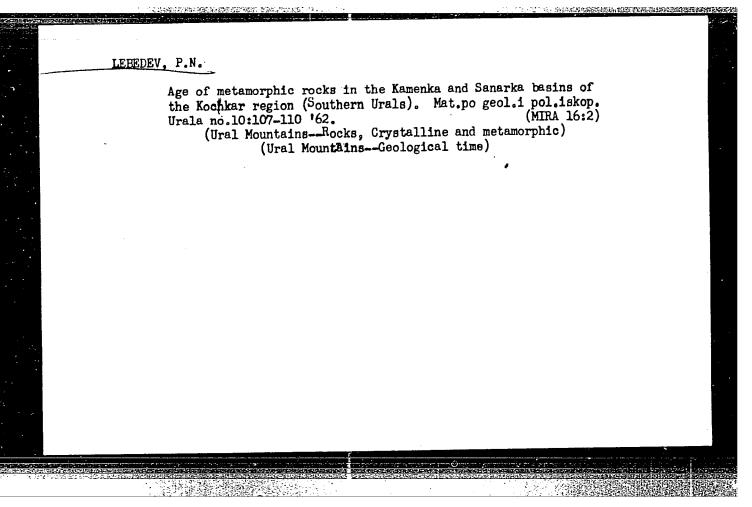
(Farm--Valuation) (Soils--Classification) (Cadasters)



LEBEDEV, Petr Nikolayevich; NIKOL'SKIY, K.K., red.; KOMONOV, A.S., red. izd-va; KHENOKH, F.M., tekhn. red.

[Protecting urban gas networks from corrosion]Opyt zashchity gorodskikh gazovykh setei ot korrozii. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1962. 80 p. (MIRA 15:9)

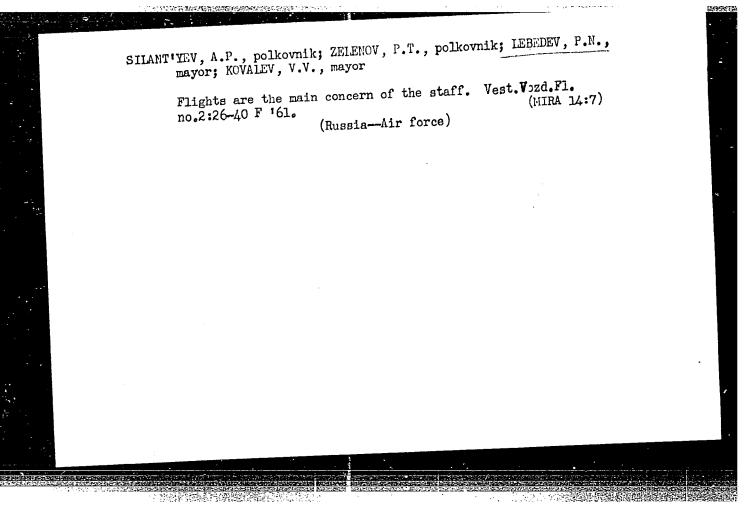
(Gas pipes—Corrosion)

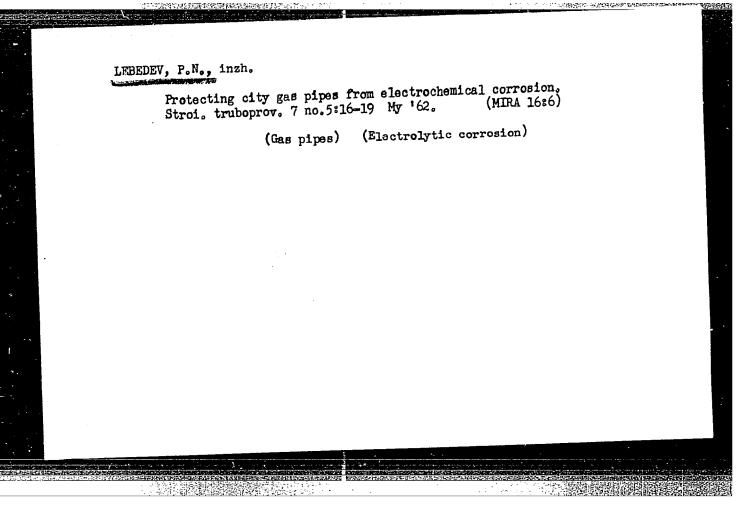


GEORGOBIANI, A.N.; GOLUBEVA, N.P.; LEBEDEV, P.N.

Excitation of electroluminescence in alkali halide compounds. Chekhosl fig zhurnal 13 no.2:91-93 '63.

1. Physical Institute, Academy of Sciences of the U.S.S.R., Moscow, U.S.S.R.





Tecnnical control of turbine oil. Wasl.-zhir.prom. 19 no.3:25-28 154.
(MLRA 7:6)

1. Glavrasshirmaslo. (Steam turbines) (Lubricantion and lubricants)

507/89-5-5-2/27 Lebedev, P. P., Zysin, Yu. A., Klintsov, Yu. S., 21(7)

AUTHORS: Stsiborskiy, B. D.

The Neutron Yield From Inclastic Interaction of Neutrons of TITLE:

14 MeV Energy With Muclei and the Reaction Cross Sections (n,2n) (Vykhod neytronov pri neuprugom vmaimodeystvii neytroncv s energiyey 14 Mev s yadrami i secheniye reaktsii

(n,2n))

Atomnaya energiya, 1958, Vol 5, Nr 5, pp 522-525 (USSR) PERIODICAL:

The quantities $\boldsymbol{\eta}_{\mathrm{a}}$ and $\boldsymbol{\sigma}_{\mathrm{in}}$ were measured for 10 nuclei ABSTRACT:

(natural isotope-composition). η a is the number of neutrons

produced by inelastic scattering of neutrons with a nucleus. The relative variation of the entire neutron flux and the weakening of the primary neutron flux after passage through the target is determined. Measurements were carried out in

spherical geometry. The neutron source was located in the

The relative weakening of the primary neutron flux was measured Card 1/4

APPROVED FOR RELEASE: 08/31/2001

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SOV/39-5-5-2/27
The Neutron Yield From Inelastic Interaction of Neutrons of 14 MeV Energy
With Nuclei and the Reaction Cross Sections (n,2n)

by means of a copper indicator $\left[\text{Cu}^{63}(\text{n},2\text{n})\text{Cu}^{62}\right]$. The relative variation of the total neutron flux was measured by means of a boron counting tube in the paraffin block, which is described (Ref 2). Measuring errors could not be kept below an average of $\pm 2\%$. The values for σ_{in} agree with previously obtained results. The values η_{a} are higher by 10-15% than those mentioned by reference 1. In a similar manner the walues $\left(\sigma_{\text{n},2\text{n}}^{-6}\right)$ differ in the same direction as η_{a} from the values mentioned (Ref 1). The following measuring results were obtained:

(ner i)"		·	$(\sigma_{n,2n},\sigma_{c}), b$
Element	η	o _{in} , b	n,2n e
	1.20+0,15	1:44 <u>+</u> 0,04	0,26 <u>+</u> 0,1
Гe	1.20+0,17	-	0,47 <u>+</u> 0,1
Cu	1,34 <u>+</u> 0,15	1,50±0,07	
Мо	1,64+0,2	1,60+0,15	1.0 <u>+</u> 0;2

Card 2/4

507/89-5-5-2/27

The Neutron Yield From Inelastic Interaction of Neutrons of 14 MeV Energy With Nuclei and the Reaction Cross Sections (n,2n)

Element	η	o _{in} , b	$(\sigma_{n,2n}^{-0}, b)$
Cá	1,74 <u>÷</u> 0,2	1.87 <u>+</u> 0,2	1,38 <u>+</u> 0,3
Sn	1,81 <u>+</u> 0,2	1,8 <u>3+</u> 0,2	1,48 <u>+</u> 0,3
Sb	1,82+0,2	1,85+0,13	$1,52 \pm 0,2$
Hg	1,86 <u>+</u> 0,2	2,46 <u>+</u> 0,1	2,02 + 0,2
Pb	1,92+0,2	2,46 <u>+</u> 0,1	$2,18 \pm 0,2$
Bi	1,88 <u>+</u> 0,2	2,58+0,1	$2,18 \pm 0,2$
U	2,8 <u>+</u> 0,25	2,91 <u>+</u> 0,14	-

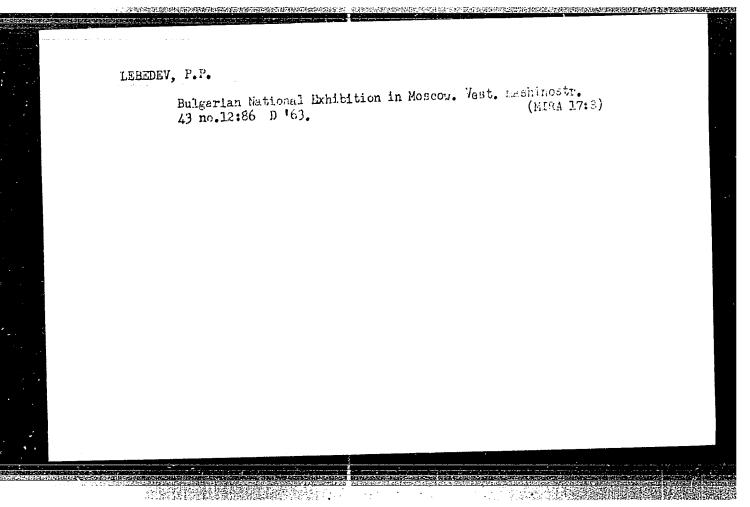
A. A. Malinkin took part in the experiments. There are 1 figure, 1 table, and 10 references, 2 of which are Soviet.

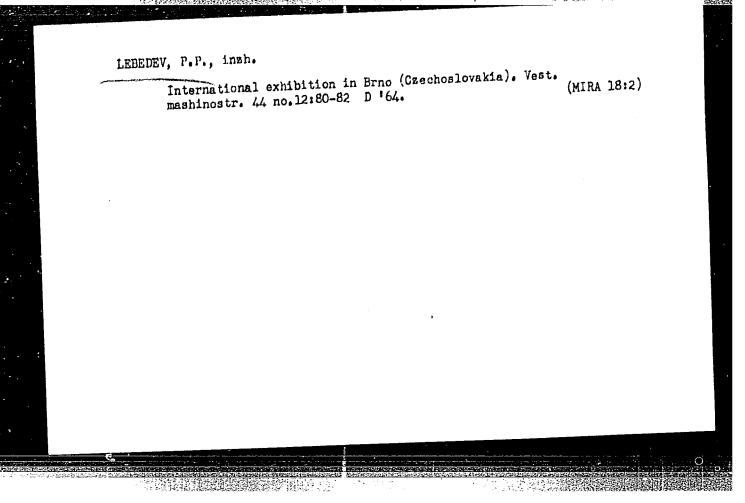
SUBMITTED: Card 3/4

April 17, 1958

APPROVED FOR RELEASE: 08/31/2001

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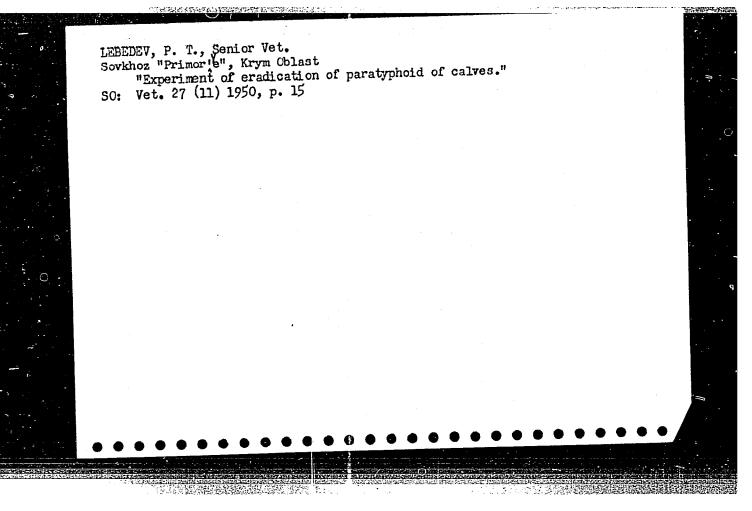
DENSHCHIKOV, Mikhail Tikhonovich, kand.tekhn.nauk; SILIN, P.M., prof., red.; VESELOV, I.Ya., prof., red.; SMIRNOV, V.A., prof., red.; RZHEKHIN, V.P., red.; LEBEDEV P.P., red.; KOVALENKO, Yu.T., red.; KUPCHINSKIY, P.D., red.; BENIN, G.S., red.; P'YANKOV, A.G., red.; SHNAYDMAN, L.O., red.; MOREV, N.Ye., red.; SHMAIN, M.M., red.; BULGAKOV, N.I., red.; MAYOROV, V.S., red.; TERNOVSKIY, N.S., red.; RAZUVAYEV, N.I., red.; OGORODNIKOV, S.T., red.; BURMAN, M.Ye., red.; KHOLOSTOV, V.A., red.; NAMESTNIKOV, A.F., red.; NASAKIN, T.N., red.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn. red.

[Wastes from the food industry and their utilization] Otkhody pishchevoi promyshlennosti i ikh ispol'zovanie. Izd. 2., dop. i perer. Moskva, Pishchepromizdat, 1963. 615 p. (MIRA 16:6) (Food industry-By-products)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020013-5"

International exhibition in Czechoslovakia. Vest. mashinostr. 45 no. 12:82-84 D '65 (MIRA 19:1)

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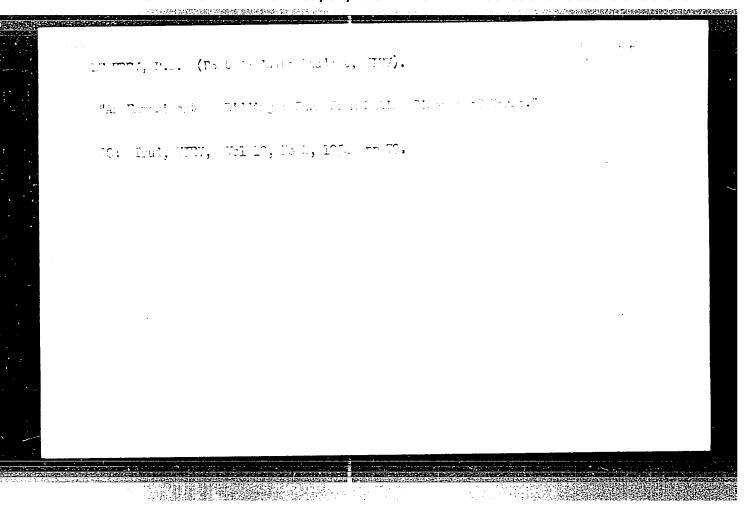


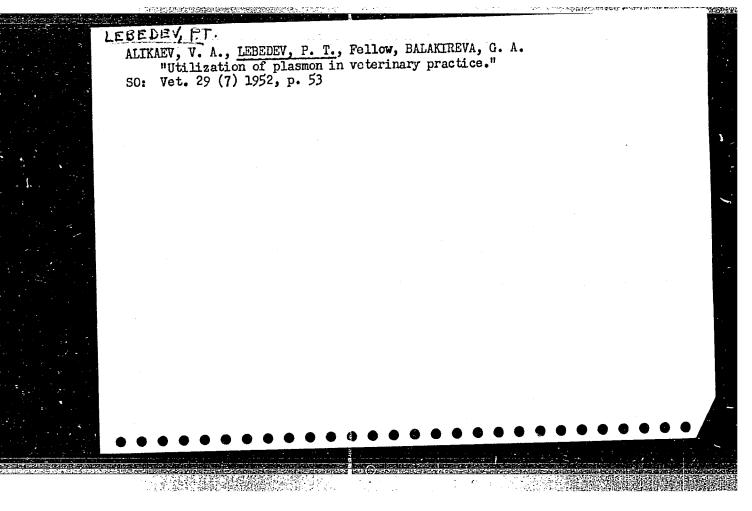
LB DAY, T.T.

Bang's Disease

Role of housing and feeding sheep in eradication of Bang's Disease. Kar. i. zver. 5 No. 2, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified





LEBEDEV, P. T.

Vitamins

Improvement in the method of determining vitamin A in the blood and tissues of animals. Sov. zootekh. 8, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. UNCLASSIFIED.

LEBEDEV, P.T., kandidat veterinarnykh nauk.

Prevention and therapy of gastrointestinal diseases in calves.

Veterinariia 31 no.2:41-42 F 154.

(MLRA 7:2)

1. Sibirskiy zonal'nyy nauchno-issledovatel'skiy veterinarnyy institut. (Calves--Diseases)

LEBEDEV, P.T., kandidat veterinarnykh nauk.

Complex measures in animal hygiene serve as basis for the prevention of gastreintestinal and pulmonary diseases in calves. Veterinariia 32 ne.1:80-84 Ja 155. (MIRA 8:2)

1.0mskiy nauchne-issledovatel'skiy veterinarnyy institut. (CALVES--DISEASES--PREVENTION)

LEBELLY, P.T., kandidat veterinarnykh nauk.

Diagnosing of mineral and vitamin deficiency should be improved. Veterinariia 32 no.10:81-83 0 '55. (MIRA 8:12)

1.Sibirskiy zonal'nyy nauchno-issledovatel'skiy veterinarnyy institut.

(DEFICIENCY DISEASES IN DOMESTIC ANIMALS)

USSR/Human and Animal Physiology - Metabolism.

T-2

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 31378

Author

Lebedev, P.T.

Inst Title On the Metabolic Exchange of Vitamin A in the Organism of

Animals.

Orig Pub

: Sb. nauch. rabot Sibersk. n.-i. vet. in-ta, 1956, vyp. 6,

11-15

Abstract

: For the determination of the content of carotin (C) in the blood of animals, the Rachevskiy method is used as modified by the All-Union Institute of Experimental Veterinary Medicine. No C was found in the blood (more than 600 samples) and liver of sheep. C was not found in the blood of different breeds of sheep even in occasions where its content in the fodder comprised ~ 500 mg in 24 hours per sheep, i.e., in a quantity exceeding by 15-20 times the requirement of the animals for it. The content of vitamin A in

Card 1/2

- 7 -

LEBEDEV, P.T., nauchnyy sotrudnik

Concentrated feed rich in vitamins and proteins. Nauka i pered.
op. v sel'khoz. no.10:10 0 % 6. (MLRA 9:12)

1. Sibirskiy zonal nyy nauchno-issledovatel'skiy veterinarnyy institut.

(Feeding and feeding stuffs) (Vitamins) (Proteins)

LEBEURY P.T. kandidat veterinarnykh nauk.

Mineral and vitamin nutrition is an important factor in the control of sterility in cows. Veterinaria 33 no.11:67-70 N (MLRA 9:11)

 Sibirskiy nauchno-issledovatel skiy veterinarnyy institut. (Feeding and feeding stuffs) (Starility in animals) (Cows--Diseases)

LEBEUEV, P.T., kand. vet. nauk

Haising calves in unheated barns. Veterinariia 35 no.3:65-67
Nr '58.

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut.

(Calves)

LEBEDEV, P.T., kand.vet.nauk

Work should be intensified on diagnosing and preventing mineral and vitemin deficiencies in animals. Veterinariis 35 no.ll:
36-37 N '58. (MIRA 11:11)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut.
(Deficiency diseases in domestic animals)

LEBEDEV, P.T., kand.veterinarnykh nauk

等。 第二章

Zoohygienic measures in preventing infectious atrophic rhinitis in swine. Veterinariia 39 no.1:66-69 Ja 162. (MIRA 15:2)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut, (Swine-Diseases and pests)

Improve the veterinary hygienic measures for rearing calves with nurse cows. Veterinaria 39 no.1:70-74 Ja '63. (MIRA 16:6)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut. (Siberia—Calves—Feeding and feeds)

LEBEDEV, P.T., kand. veter. nauk; UGLOVA, N.V., veterinarnyy yra h

Using marl for growing green forage by hydroponics.

Veterinariia 40 nc.11:65-66 N 163. (MIRA 17:9)

1. Sibirskiy nauchno-issledovateliskly veterinarnyy institut.

LEBEDEV, P.T., kand. veter. nauk; PANTELEYEVA, M.D., nauchnyy sotrudnik

Effect of the silage-type feeding of cows and heifers on the manifestation of dyspepsia in calves. Veterinariia 41 no.1: 93.95 Ja 164. (MIRA 17:3)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut.

LEBEDEV, P.T.; USOVICH, A.T.; CHEPUROV, E.P., prof.; KAL'CHENKO, M.M., aspirant; MATUSEVICH, V.F., doktor veterin. nauk; STEN'KO, A.S., mladshiy nauchnyy sotrudnik; LAKHMYTKINA, A.N., aspirant; GRISHCHENKO, N.F.; ORLOV, A.I., veterinarnyy vrach (Arkhangel'skaya obl.); PROSTYAKOV, A.P., kand. biolog. nauk; KOVYNDIKOV, M.S., kand. veterin. nauk; ARIFDZHANOV, K.A., kand. veterin. nauk

Veterinary experiments. Veterinariia 41 no.4:101-111 Ap '64. (MIRA 17:8)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut (for Lebedev, Usovich). ?. Poltavskiy sel'skokhozyaystvennyy institut (for Chepurov, Kal'chenko). 3. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Matusevich, Sten'ko, Lakhmytkina). 4. Chernigovskaya oblastnaya veterinarnaya laboratoriya (for Grishchenko). 5. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii (for Prostyakov, Fortushnyy, Kovyndikov). 6. Uzbekskiy nauchno-issledovatel'skiy veterinarnyy institut (for Arifdzhanov).

LEBEDEV, P.T.; USOVICH, A.T.; CHEPUROV, k.P., prof.; KAL'CHENKO, M.M., aspirant; MATUSEVICH, V.F., doktor veterin. nauk; STEN'KO, A.S., mladshiy nauchnyy sotrudnik; LAKHMYTKINA, A.N., aspirant; GRISHCHENKO, N.F.; ORLOV, A.I., veterinarnyy vrach (Arkhangel'-skaya obl.); PROSTYAKOV, A.P., kand. biolog. nauk; KOVYNDIKOV, M.S., kand. veterin. nauk; ARIFDZHANOV, K.A., kand. veterin. nauk

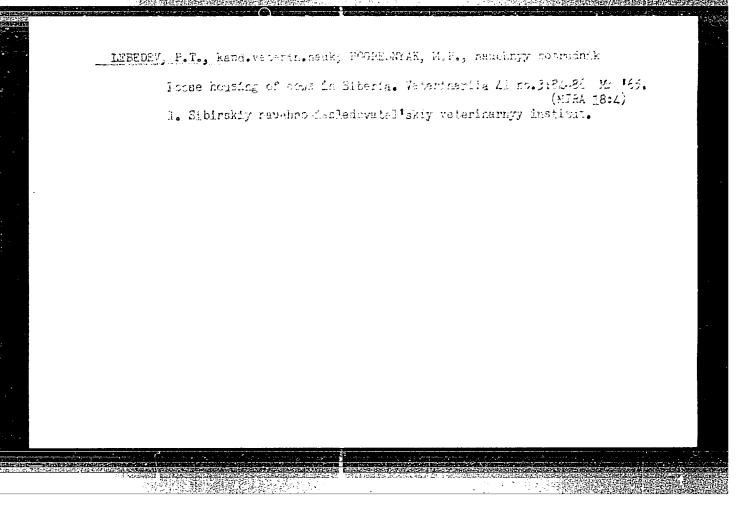
Veterinary experiments. Veterinariia 41 no.4:101-111 Ap '64.
(MIRA 17:8)

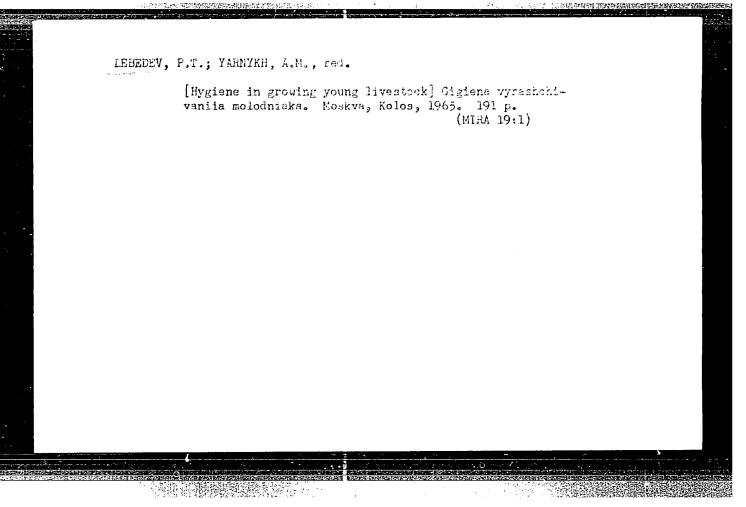
l. Sibirskiy nauchnc-issledovatel'skiy veterinarnyy institut (for Lebedev, Usovich). ?. Poltavskiy sel'skokhozyaystvennyy institut (for Chepurov, Kal'chenko). 3. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya (for Matusevich, Sten'ko, Lakhmytkina). 4. Chernigovskaya oblastnaya veterinarnaya laboratoriya (for Grishchenko). 5. Ukrainskiy nauchno-issledovatel'skiy institut eksperimental'noy veterinarii (for Prostyakov, Fortushnyy, Kovyndikov). 6. Uzbekskiy nauchno-issledovatel'skiy veterinarnyy institut (for Arifdzhanov).

IEEEDEV, P.T., kand. veterin. nauk

Use of formalin and carbamide in preparing corn volage. Vetericariia
41 no.9:94-95 S '64,

1. Sibirskiy mouchno-isslodovatel*skiy veterirarnyy institut.





LEBEDEY, P.v.

Promising perennial grasses for cultivation in the forest steppe of the trans-Ural region. Trudy Bot.inst.Ser.6 no.7:225-228 '59. (MIRA 13:4)

1. Ural'skiy gosudarstvennyy universitet im, A.M.Gor'kogo, Sverdlovsk. (Ural Mountain region--Grasses)

LEBEDEV, P.V., dots.

Using seeds of wild grasses for the improvement of meadows.
Zemledelie ? no.12:82 D '59. (MIRA 13:3)

1. Ural'skiy gosudarstvennyy universitet im.A.M.Gor'kogo.
(Pastures and meadows)

LEBEDEV, P.V. Biology and productivity of red clover under natural conditions and in cultivation. Bot.zhur.41 no.9:1346-1349 S '56. (MERA 9:11) 1. Ural'skiy gosudarstvennyy universitet, Sverdlovsk. (Clover)

LEBEDEV, P.V.: MEL'NIK, N.S.

1. Rekomendovana kafedroy botaniki Ural'skogo gosudarstvennogo universiteta im. A.M.Gor'kogo.

(Fescue grass) (Plants, Effect of nitrogen on)

(Soil moisture)

LEBEDEV, P.V., glavnyy zootekhnik

Silage as a roughage substitute in cow rations. Zhivotnovodstvo
21 no.5:85 My 159. (MIRA 12:7)

1. Solganskiy sovkhoz, Uzhurskogo rayona, Krasnoyarskogo kraya.
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020013-5"

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Effect of nitrogen and soil moisture on shoot formation and productivity in the awnless brome grass. Bot. zhur. 46 no.9:1276-1281 (MIRA 14:9) S '61.

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo, Sverdlovsk.
(Brome grass) (Plants, Effect of nitrogen on) (Plants, Effect of soil moisture on)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020013-5"

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1000年後的國際國際

Interrelations among the components of grass mixtures. Zap. Sverd. otd. VBO no.2:33-40 '62. (MIRA 16:8)

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Effect of nitrogen nutrition and light intensity on interrelationships in the growth of shoots and roots of meadow grasses. Fizial. rast. 10 no.3:358-365 My-Je '63. (MIRA 16:6)

LEBEDEV, P.V.; MEL'HIK, N.S.; BOROVSKAYA, T.A.

Effect of the nitrogen nutrition level on the tillering and productivity of meadow grasses. Zap. Sverd. otd. VPO no.3: 111-119 '64 (MIRA 18:2)

LEBEDEV, P.V.; MEL'NIK, N.S.; BOROVSKAYA, T.A.

Effect of cultivation conditions on the development of wild meadow grasses. Bot. zhur. 49 no.3:404-412 Mr '64.

(MIRA 17:3)

1. Ural'skiy gosudarstvennyy universitet, Sverdlovsk.

AUTHOR: Glagolev, V. V., and Lebedev, R. M.

120-2-32/37

TITLE:

Investigation into Possibility of Constructing an Instrument for the Automatic Scanning of Thick Films of Photographic Emulsions. (Issledovaniye Vozmozhnosti Sozdaniya Pribora dlya Avtomaticheskogo Prosmotra Tolstosloynykh Fotograficheskikh Emul'siy.)

PERIODICAL: Pribory i Tekhnika | Eksperimenta, 1957, No. 2, pp. 114 - 116 (USSR).

ABSTRACT: Thick photographic emulsions are often used in studies of elementary particle interactions. It is often necessary to follow tracks of charged particles in emulsions. The speed of this does not exceed 50 cm per day. In order to obtain statistically accurate results, years of work of an investigator are needed. In recent years (Refs. 1 and 2) automatic track counters have been described. In the present article the authors discuss the possibility of constructing an instrument which would automatically inspect a track. An attachment, using two photomultipliers is added to the type MB-8 microscope (Fig. 1), the picture of the slot with the trace being projected on to the cathode of one of the photomultiplier tubes and the largest part of the background on to the other. The deflection of Card 1/2 a microammeter determines therefore the track-background

Investigation into the Possibility of Constructing an Instrument for the Automatic Scanning of thick Films of Photographic Emulsions.

difference. The reproducibility is about 2% of FSD. The possibility of using the instrument for relativistic particles (grain density 20-25 per 100 micron) is of some interest. It is found that, when working with relativistic particles, it is necessary either to increase the density and size of the grains or to introduce summation over several inspection fields. The experiments have shown that it is possible to obtain, even for relativistic particles, a stable signal source for automatic inspection fields. One circuit diagram and four graphs of experimental results are given. M.I. Podgoretskiy, K.D. Tolstov, and I.V. Shtranikh took part in the evaluation of the obtained results. There are 2 references, none of which

SUBMITTED: June 31, 1956.

AVAILABLE: Library of Congress.

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· "不知我"的特殊的研究的最初的特殊的特殊的特殊。 たにじょりゃく ん 77 AUTHOR LEBEDEV, R.M. 89-9-17/32 News Concerning the United Institute for Nuclear TITLE Research. (V.ob yedinennom institute yadernykh issledovaniy) PERIODICAL Atomnaya Energiya, 1957, Vol 385, Nr 9, pp 263-265 (USSR) ABSTRACT The 2. session of the Scientific Council of the above institute took place at Dubna from the 15. to the 18. May 1957: 1. The synchrophasotron was put into operation. VEKSLER reported on the various stages of this process. The following principal parts were tested one after the other before being put into operaa) Feeding of electromagnets, b) Magnet with field variable with respect to time, c) Vacuum system, d) High frequency system, e) Introduction of beam into the device and emission of the accelerated beam. 2.) The scientific activities of the laboratory for high CARD 2/3 energies.

News Concerning the United Institute for Nuclear Research.

89-9-17/32

In particular, methods were worked out for the recording and investigation of the behavior of high energy particles. The following work was carried out: A large propane bubble chamber; a device for applying solid hydrogen and deuterium on to nuclear photo plates; production of organic scintillators of any size; development of a new method for the discrimitation of particles up to 5 BeV. Scientific work: New particles and new nuclear reactions are especially investigated.

- 3.) Report of the Laboratory for Nuclear Problems:
 - a) The synchrocyclotron available is now able to furnish protons of up to 680 MeV and can be operated during 140 hours per week,
 - b) Elastic scattering of polarized and not polarized nucleons by various nuclei at 600-660 MeV.
 - c) Forming of p-mesons by polarized and not polarized nucleons,
 - d) Forming of p-mesons by p-mesons.
 - e) Scattering of p-mesons by various nuclei,
 - f) Interaction of high-energy particles with complicated nuclei,
 - g) Investigation of the properties of μ -mesons and the processes with weak interaction.
- 4.) The Laboratory for Theoretical Physics published

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News Concerning the United Institute for Nuclear CARD 3/3 Research.

a report on:

- _ -a) General problems of the quantum field theory,
 - b) Dispersion conditions,
 - o) Influence exercised by the internal structure of a nucleus in the interaction with p-mesons, electrons, and photons,
 - d) Attempt at providing theoretical proof of the existence of new particles,
 - e) Theory of the interaction of elementary particles.
- 5.) The Laboratory for Neutron Physics is at present building an impulse reactor.
- 6.) In all laboratories of the Institute International Cooperation is promoted and will be further extended.

ASSOCIATION: not given.

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